

Q #	Vendor Question	State Response
1	Bulldozer Specifications A-C: #2 Drawbar Sprocket pull - 9,200lbs @ 3.0 mph, maximum drawbar pull at 38,667lbs. Will the state lower the requirement to 8,400lbs @ 3.0 mph to allow Cat to meet spec or consider adding the word "OR" between the "drawbar pull" and "maximum pull" so that Cat can meet one of those two specifications	2. Drawbar/sprocket pull –8,400 lbs. at 3.0 mph or Maximum Drawbar pull 33,600 lbs.
2	5) Powertrain - (d): Cat does not have a separate sump pump nor manufacture a product that would meet this spec. This cannot be added after market. Will the State modify to remove this spec so Cat can meet spec or add the word "OR" between Specifications (D) and (E) such that either spec would suffice.	(d) The hydrostatic drive system will have a separate sump from the main hydraulics or a sump that will provide a reserve so that the hydrostatic drive will continue to function in the event of a main hydraulic system failure or a sensor will be in the tank that will alert the operator of a hydraulic fluid loss so that the dozer can be moved to a safe area.
3	Operator Environment (aa) - Quick Release latch is not available on door or rear window. The door screen would not be quick release since the operator would use the door. The rear is currently not an emergency exit and tool box will lessen the area currently there, so quick release is not provided. This is not feasible for dealer to add. Quick release is however available on side screens. Will the State request quick release on side screens only and allow for door latch or no tools door screen opening to serve as release for door screens?	(aa) Side screens are to be quick release latch accessible inside and outside the cab for an emergency egress.
4	7) Operator Environment, (uu): asks for total height of dozer for transport to not exceed 113" but in spec "Bulldozer Specification-A, B & C" the total height not to exceed is listed as 109". Will the state make 113" as the consistent height max requirement so that Cat can meet the specification?	(uu) The total height of the dozer/transport including guards but excluding antenna of 113 inches.
5	Special Terms and Conditions - #21: Written requests for price changes based on vendor's actual cost for other than imposed charge by federal, state, or city government entity after the firm period shall be submitted in writing to the CPO. Any increase shall be based on the vendor's actual cost increase, may not constitute additional profits shown in written cost documentation and must obtain data establishing or supporting the general or industry wide nature of the change. Will the state consider adding verbiage that allows for vendor to document price increase/decrease after the firm period, to be based on "List Price" rather than actual cost, with a maximum not to exceed 5% annually to be consistent with the 5% max decrease already stated in the specification. Dealer/vendor does not get price increase/decrease details from manufacturer as to the nature of those changes. Will the state consider removing the requirement for the specific nature of the price change to be documented and rather rely on the manufacturer's validation of the actual change as documented as % of list price change as well as the max increase to serve as the metric for any price change request.	The selected vendor will be allowed to increase prices as long as the price increase is justified.
6	Bulldozer Specifications A-C: #2 Drawbar - In order for Caterpillar to bid, we would request this spec for 3.0 mph to be changed to 8,400 lbs or greater at 3.0 MPH. Will the State please review the spec for Drawbar Pull at 3.0 MPH so that Caterpillar can participate in this solicitation? Please note that including "or" between Drawbar specification for 3.0 MPH and the spec for Max Drawbar would allow Caterpillar to meet specification.	Please see response to question #1
7	5) Powertrain - (d & e): We do not have a separate sump pump. We can not manufacture a product that would meet this spec. This is not anything that can be added after market. Will the State please include "or" for separate sump (d)/indicator on dash (e) so that Caterpillar can meet specification?	(d) The hydrostatic drive system will have a separate sump from the main hydraulics or a sump that will provide a reserve so that the hydrostatic drive will continue to function in the event of a main hydraulic system failure or a sensor will be in the tank that will alert the operator of a hydraulic fluid loss so that the dozer can be moved to a safe area.

8	Operator Environment (aa) - Quick Release latch is not available on door or rear window. Please consider that the door screen would not be quick release since the operator would use the door. Please consider the rear is not an emergency exit and tool box may lessen the area currently there, so quick release is not provided. This is not financially feasible for dealer to add. Quick release is available on side screens where operators may need this feature. Can the State please request Side Door and Rear Screens with quick release latch on side screens for emergency exit?	(aa) Side screens are to be quick release latch accessible inside and outside the cab for an emergency egress.
9	RFP Criteria - While the specifications listed are very detailed regarding the size class and safety features, we would ask that the State consider award giving some price adjusted weight to topics such as Dealer Experience, Dealer Parts Availability, Dealer Service Capabilities, Emissions Systems, and methods manufacturers use to modify base machine.	Please see Special Term and Condition #30 for award criteria.
10	Terms & Conditions. Will the State consider adding written if requests for price changes to base machine based off manufacturer price escalators will satisfy as proof of price increases?	Please see response to question #5
11	Terms & Conditions (Cooperative Contract Comparison). Will the State consider utilizing SWC220 to fulfill the procurement of a dozer meeting the attached specification?	The State has made this consideration, however, due to the specialization of the equipment, and use by only one State agency, the decision was made to issue a separate procurement.
12	Specification #3 Engine Cooling i. e – Request “perforated grille” be added by “louvered”. It’s included in “h” already. John Deere has a heavy duty perforated grille guard.	e) The radiator grille shall be designed for heavy-duty forestry service, louvered or perforated, quick release, with four to seven vertical structural members.
13	Specification. #4 Fuel Lines and Fuel Tank i. a - “Entire fuel system shall be guaranteed to function without rust effects for the lifetime of the tractor”. “Lifetime” is vague/open ended...suggest adding: “minimum of 10 years”. ii. c – John Deere does not offer a complete metal fuel filter. To change the fuel filter or any part that could affect the certified emission system would require recertification of the system. Suggest changing to: “Fuel filter housing shall be metal or shielded / protected to withstand excessive heat.”	(a) Fuel tank shall be made of stainless steel, or carbon steel and coated with a rust inhibitor, and the entire fuel system shall be guaranteed to function without rust effects for a minimum of 15 years. Plastic/poly tanks are not acceptable. Fuel lines shall be stainless steel braided hose rated for fire resistance of Aeroquip AE102. (c) Fuel filter housing shall be metal or shielded/protected to withstand excessive heat.
14	c. #7 Operator Environment i. o – Our standard particulate filter is not UL900 certified. We’re not aware of any benefits this standard offers you in your application. This will make your filters unique and elevate filter replacement cost. We recommend removing this requirement. We know of no other agency specifying this standard in fire tractor application. ii. q - What is the “Manufacturer standard for fire dozer application”? We think this wording should be removed. iii. yy – Will two 5 lbs. extinguishers work vs. one 10 lb.? Also, recommend that one of the two extinguishers be stored in the outside tool box. If the cab is filled with smoke from a belly pan fire it’s a safety concern to ask the operator to go back inside the cab and feel around for the extinguisher.	o) The media material shall be fiberglass <u>or</u> meet UL900 Class Specifications. q) The pressurizer fan shall be rated at 328 CFM minimum.  (yy) ONE (1) ten pound (10 lb.) shall be mounted inside the operator cab and be within reach of the seated operator or TWO (2) five pound (5 lb.) ABC rated fire extinguishers one to be mounted inside the operator cab within reach of the seated operator and one to mounted in rear toolbox.
15	d. #8 Hydraulic System: i. g,h,i,j – needs to be removed from this section, covered in specifications	I,G,H,L, and J is in the specifications for clarification purposes. The awardee shall comply with the solicitation's specifications
16	e. #14 Fire Protection Equipment i. ii – exterior hydraulic hoses shall be covered with “firesleeving”. Firesleeving will not last...not abrasion resistant. Recommend changing to “cordura sleeving”. “Cordura” is a trademarked name, so you may prefer to specify “abrasion resistant sleeving.”	(ii) Exterior hydraulic hoses shall be covered with Cordura sleeving and hydraulic fittings shall be guarded.
17	f. #15 Machine Outfitting and Delivery i. f – Top of ROPS ....“to be painted flat black”? Have NEVER been instructed to paint top of a cab/canopy black. Black raises interior temperature. ALWAYS yellow or white. Your call. We can do either.	(f) Exterior color to be painted “industrial safety yellow”, except for the limb risers and brush screens. All brush screens, limb risers, and other areas that might cause glare are to be painted flat black. The interior of the cab is to be a non-glare color.

18	<p>g. Specifications</p> <p>i. A, B &amp; C #2 – “Maximum drawbar pull of 38,667 lbs.” John Deere’s 650K does not meet this requirement. Our maximum drawbar pull is 33,600 lbs. However, we do meet the “drawbar pull of 9,200 lbs. at 3 mph”. Suggest changing to 9200 lbs. @ 3 mph or maximum pull of 38,667 lbs.</p> <p>ii. A &amp; B #5 – Ground pressure – 6.2 psi base, max, Deere 650K XLT is at 6.4 psi. Suggest changing to “6.4 psi”. Ground pressure for LGP unit is specified at 6.0 psi, maximum. This value is so high for an LGP unit, that it’s meaningless. Suggest specifying max ground pressure for a base LGP machine at 4.5 psi – 5.0 psi.</p> <p>iii. A, B &amp; C #9 – “Overall machine height (tip of grouser to highest point) 109” Max”. I don’t think anyone can meet this spec with a guarding pkg. Under Operator Environment, uu “total height of the dozer/transport including guards but excluding antenna of 113 inches”. Two different heights listed. Suggest using 113” in all locations.</p> <p>iv. B - #26 – “CAT model 256-3738” we cannot use. Suggest removing this...</p> <p>v. C - #9 – “Track Gauge - 68” max” – We cannot meet this with our 650K. Suggest changing to 69”.</p>	<p>A,B &amp; C #2. Drawbar/sprocket pull –8,400 lbs. at 3.0 mph or Maximum Drawbar pull 33,600 lbs.</p> <p>A,B &amp; C #5. Ground Pressure - 6.5 psi base, max</p> <p>A,B &amp; C #9. Track Gauge - 61” max - Overall Machine Height (tip of grouser to highest point) 113” Max Overall Machine Width 80” Max, no blade, Overall Machine Width 80” Max, no blade</p> <p>Spec B #29 (RENUMBERED FROM 26). Rear mounted hydrostatic winch 38,000-40,000 lbs. line pull-bare drum, 131 ft/min speed-bare drum.</p> <p>Spec C #9. Track Gauge - 69” max</p>
19	<p>Please consider revising the weight specification. As now written, the “operating weight” of the tractor is required to be 18,000 – 27,000 pounds. There are a couple of problems with this requirement.</p> <p>1. “Operating weight “is not clearly defined or understood. Does it require all the fluid compartments be full? Does it include an operator? Does it include forestry guarding? Does it include attachments (plow or winch)? Does it include all the “stuff” the operator carries (drip torch, chain, tools, first aid kit, fire shelter, etc.)? For clarity, we recommend that you specify “base weight” which is clearly defined by SAE and is published in all manufacturers’ literature. It includes the tractor, all fluid compartments filled, and a 175 pound operator. It’s good for comparison purposes.</p> <p>2. The range of 18,000 – 27,000 pounds is an extremely large range. It spans THREE tractor classes. Consider these published tractor weights:</p> <p>Long Track Low Ground Pressure</p> <p>John Deere 450K (80 hp class) 17,510 18,752</p> <p>Caterpillar D3K2 (80 hp class) 17,465 18,442</p> <p>John Deere 550K (90 hp class) 19,758 21,000</p> <p>Caterpillar D4K2 (90 hp class) 18,007 18,686</p> <p>John Deere 650K (100 hp class) 21,320 22,343</p> <p>Caterpillar D5K2 (100 hp class) 20,534 21,266</p> <p>These weights represent a spread of 22% for Standard/Long Tracks and 21% for LGP’s. This is in contrast to your requirement of 18,000 – 27,000 pounds, which represents a spread of 50%! The way the spec is currently written, a supplier could supply a lightweight tractor with lots of power (to meet the horsepower spec), but which might perform poorly. POWER AND WEIGHT are required in a crawler for it to perform properly. The range is typically 195 – 235 lb/hp. To spec a tractor that you know will have the correct power-to-weight ratio; we recommend that you specify a BASE WEIGHT of 20,000 – 23,000 pounds. You can see that both manufacturers’ can supply tractors that meet this spec. Forestry guarding and plow/winch would add about 5000 pounds to these weights.</p> <p>One additional point about weight..... The plow that you have specified is HEAVY for this class of tractor. Relatively speaking, it will take a HEAVY tractor to safely handle a plow that large.</p>	<p>Spec A &amp; B #4. Base Weight – 18,000 pounds, min. and maximum 23,500 pounds. (Fully outfitted weight 27,000 lbs).</p> <p>Spec C #4. Base Weight – 18,600 pounds, min. and maximum 23,500 pounds (Fully outfitted weight 27,500lbs. max.).</p>
20	<p>Potential Price Adjustment Method: Request consideration of a method for allowing price increases similar to one used by TDOT (from RFX # 32110-9111 Terms and Conditions - Special Terms and Conditions - 6. Bids Requested for Percentage Discount/Surcharge From Specified Catalog/Price List/Price Schedule). A base figure could be set by using manufacture's list price line item code for the model offered at the time of the RFP. Following year's orders would be priced based on the relationship of the original line item price to the current price listed in the manufacture's price list. For example, if the 2018 price for the model offered base code is \$100,000 and at the time of the 2019 order the base code is \$102,000, the price of the entire machine would increase by 2%. The State will also have access to the manufacturer's computer with a sign in that allows it to see the offered machine pricing.</p>	<p>Please see response to question#5</p>

21	In regards to section 5. Powertrain line (d), based on my research all manufacturers utilize a single tank for the hydraulic system and the hydrostatic transmission. Would the state consider eliminating this spec so that manufacturers can all comply?	(d) The hydrostatic drive system will have a separate sump from the main hydraulics or a sump that will provide a reserve so that the hydrostatic drive will continue to function in the event of a main hydraulic system failure or a sensor will be in the tank that will alert the operator of a hydraulic fluid loss so that the dozer can be moved to a safe area.
22	Section 7 Operator environment item (hh) says that the DEF system shall be service free for the life of the Machine. All manufacturers have a DEF filter in the tank to preserve the life of the aftertreatment system, and it needs to be replaced from time to time.	DEF system components shall be designed as permanent components other than fluid prefilters. Components should not require routine or regular replacement.
23	I propose that the State consider revising the drawbar/sprocket pull spec to "Maximum drawbar pull of 31,024 lbs." and eliminate spec for torque at 3.0 mph as not all manufacturers can comply as written and Komatsu does not publish their drawbar pull at 3.0 mph specifically.	2. Drawbar/sprocket pull – 8,400 lbs. at 3.0 mph or Maximum Drawbar pull 33,600 lbs.
24	The State has made it clear that they do not plan to allow a machine to derate in the absence of DEF, but I would point out that to comply, manufacturers (and therefore the State) will be incurring possibly significant additional cost to achieve this modification. I would simply point out that all manufacturer's machines are designed to run out of fuel significantly sooner than DEF fluid, and clearly no machine can operate without fuel.	Under Federally allowed exclusions from emissions regulations for fire equipment, manufacturer shall include an in-cab mounted, bypass switch that allows the operator to temporarily delay any emissions related derate or change in performance while equipment is operating in an active fire. It is understood that this function is not related to DEF fluid and that DEF fluid is required for the equipment to operate.
25	Engine #16 Would the State be able to allow machines to give the operator adequate amount of warning prior to any machine deration or power loss due to lack of DEF? Deration is an industry wide requirement for EPA Tier 4 Final Compliance.	Under Federally allowed exclusions from emissions regulations for fire equipment, manufacturer shall include an in-cab mounted, bypass switch that allows the operator to temporarily delay any emissions related derate or change in performance while equipment is operating in an active fire. It is understood that this function is not related to DEF fluid and that DEF fluid is required for the equipment to operate.

26	Power Train #5 Hydrostatic transmissions across the industry typically utilize the same tank as the rest of the machine's hydraulic system.	Please see response to question #7
27	Operator Environment #35 All Tier 4 Final Compliant machines will have a filter change interval for the DEF tank and many manufacturers recommend a DEF System cleaning at 2000 hours.	DEF system components shall be designed as permanent components other than fluid prefilters. Components should not require routine or regular replacement.
28	Operator Environment #37 Generally, a DEF system purge requires an electrical connection to actuate the DEF Pump across the industry. We propose "DEF System shall purge lines with key switch in the off position" as the disconnect is a master switch that disables a machine's entire electrical system to conserve batteries and make the electrical system safe to make repairs/maintenance.	Please see Specification item (jj)
29	Rear-mounted Winch #1 Is 40,000 lbs meant to define the class of winch or the minimum requirement? Most widely accepted competitive winches in this class range from 38,000-40,000 lbs. The winch we could supply is 39,650 lbs.	29. Rear mounted hydrostatic winch, 38,000-40,000 lbs. line pull-bare drum, 131 ft/min speed-bare drum.

